

TouchLink™

# TLP 700MV and TLP 700TV

TouchLink Touchpanel Control Systems





68-1378-01 **Rev. B** 10 10

## Safety Instructions • English



This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment

This symbol is intended to alert the user of the presence of uninsulated dangerous /4 voltage within the product enclosure that may present a risk of electric shock.

#### Caution

Read Instructions • Read and understand all safety and operating instructions before using the equipment. Retain Instructions • The safety instructions should be kept for future reference. Follow Warnings • Follow all warnings and instructions marked on the equipment or in the user

information.

Avoid Attachments • Do not use tools or attachments that are not recommended by the equipment ufacturer because they may be hazardous

# Consignes de Sécurité • Français



Ce symbole sert à avertir l'utilisateur que la documentation fournie avec le matériel contient des instructions importantes concernant l'exploitation et la maintenance (réparation).

Ce symbole sert à avertir l'utilisateur de la présence dans le boîtier de l'appareil Ce symbole sert a avertir i utilisateuri de la presence dans le construction. de tensions dangereuses non isolées posant des risques d'électrocution.

#### Attention

Lire les instructions • Prendre connaissance de toutes les consignes de sécurité et d'exploitation avant d'utiliser le matériel.

- Conserver les instructions Ranger les consignes de sécurité afin de pouvoir les consulter à l'avenir. Respecter les avertissements • Observer tous les avertissements et consignes marqués sur le matériel ou présentés dans la documentation utilisateur.
- Eviter les pièces de fixation Ne pas utiliser de pièces de fixation ni d'outils non recommandés par le fabricant du matériel car cela risquerait de poser certains dangers.

# Sicherheitsanleitungen • Deutsch

Dieses Symbol soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.

Dieses Symbol soll den Benutzer darauf aufmerksam machen, daß im Inneren des Gehäuses dieses Produktes gefährliche Spannungen, die nicht isoliert sind und die einen elektrischen Schock verursachen können, herrschen.

#### Achtung

/4

Lesen der Anleitungen • Bevor Sie das Gerät zum ersten Mal verwenden, sollten Sie alle Sicherheits-und Bedienungsanleitungen genau durchlesen und verstehen.

Aufbewahren der Anleitungen • Die Hinweise zur elektrischen Sicherheit des Produktes sollten Sie aufbewahren, damit Sie im Bedarfsfall darauf zurückgreifen können.

Befolgen der Warnhinweise • Befolgen Sie alle Warnhinweise und Anleitungen auf dem Gerät oder in der nutzerdokumentation

Keine Zusatzgeräte • Verwenden Sie keine Werkzeuge oder Zusatzgeräte, die nicht ausdrücklich vom Hersteller empfohlen wurden, da diese eine Gefahrenquelle darstellen können.

# Instrucciones de seguridad • Español



Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (o cambio de partes) que se desean destacar en el contenido de la documentación suministrada con los equipos.

Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.

#### Precaucion

Leer las instrucc Leer y analizar todas las instrucciones de operación y seguridad, antes de usar el equipo.

Conservar las instrucciones • Conservar las instrucciones de seguridad para futura consulta. Obedecer las advertencias • Todas las advertencias e instrucciones marcadas en el equipo o en la

documentación del usuario, deben ser obedecidas. Evitar el uso de accesorios • No usar herramientas o accesorios que no sean especificamente recomendados por el fabricante, ya que podrian implicar riesgos.

# 安全须知 • 中文

⚠️ 这个符号提示用户该设备用户手册中有重要的操作和维护说明。

✓ 这个符号警告用户该设备机壳内有暴露的危险电压,有触电危险。

- 注意 阅读说明书 • 用户使用该设备前必须阅读并理解所有安全和使用说明。
- 保存说明书 用户应保存安全说明书以备将来使用。
- 遵守警告 用户应遵守产品和用户指南上的所有安全和操作说明。
- **避免追加** 不要使用该产品厂商没有推荐的工具或追加设备,以避免危险。

#### Warning

- Power sources This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with a main power system with a grounded (neutral) conductor. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.
- Power disconnection To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (wall plug).
- Power cord protection Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them
- Servicing r Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.

Slots and openings • If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects

Lithium battery • There is a danger of explosion if battery is incorrectly replaced. Replace it only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the instructions of the m ufacturei

#### Avertissement

- Alimentations Ne faire fonctionner ce matériel qu'avec la source d'alimentation indiquée sur l'appareil. Ce matériel doit être utilisé avec une alimentation principale comportant un fil de terre (neutre). Le troisi contact (de mise à la terre) constitue un dispositif de sécurité : n'essayez pas de la contourner ni de la désactiver.
- Déconnexion de l'alimentation Pour mettre le matériel hors tension sans danger, déconnectez tous les cordons d'alimentation de l'arrière de l'appareil ou du module d'alimentation de bureau (s'il est amovible) ou encore de la prise secteur.
- Protection du cordon d'alimentation Acheminer les cordons d'alimentation de manière à ce que personne ne risque de marcher dessus et à ce qu'ils ne soient pas écrasés ou pincés par des objets.
- Réparation-maintenance Faire exécuter toutes les interventions de réparation-maintenance par un technicien qualifié. Aucun des éléments internes ne peut être réparé par l'utilisateur. Afin d'éviter tout danger d'électrocution, l'utilisateur ne doit pas essayer de procéder lui-même à ces opérations car l'ouverture ou le retrait des couvercles risquent de l'exposer à de hautes tensions et autres dangers.
- Fentes et orifices Si le boîtier de l'appareil comporte des fentes ou des orifices, ceux-ci servent à empêcher les composants internes sensibles de surchauffer. Ces ouvertures ne doivent jamais être bloquées par des objets.
- Lithium Batterie Il a danger d'explosion s'll y a remplacment incorrect de la batterie. Remplacer uniquement avec une batterie du meme type ou d'un ype equivalent recommande par le constructeur. Mettre au reut les batteries usagees conformement aux instructions du fabricant.

#### Vorsicht

- mquellen Dieses Gerät sollte nur über die auf dem Produkt angegebene Stromquelle betrieben werden Dieses Gerät wurde für eine Verwendung mit einer Hauptstromleitung mit einem geerdeten (neut Leiter konzipiert. Der dritte Kontakt ist für einen Erdanschluß, und stellt eine Sicherheitsfunktion dar. Diese sollte nicht umgangen oder außer Betrieb gesetzt werden.
- Stromunterbrechung Um das Gerät auf sichere Weise vom Netz zu trennen, sollten Sie alle Netzkabel aus der Rückseite des Gerätes, aus der externen Stomversorgung (falls dies möglich ist) oder aus der Wandsteckdose ziehen.
- Schutz des Netzkabels Netzkabel sollten stets so verlegt werden, daß sie nicht im Weg liegen und niemand darauf treten kann oder Objekte darauf- oder unmittelbar dagegengestellt werden kör
- Wartung Alle Wartungsmaßnahmen sollten nur von qualifiziertem Servicepersonal durchgeführt werden. Die internen Komponenten des Gerätes sind wartungsfrei. Zur Vermeidung eines elektrischen Schocks versuchen Sie in keinem Fall, dieses Gerät selbst öffnen, da beim Entfernen der Abdeckungen die Gefahr eines elektrischen Schlags und/oder andere Gefahren bestehen.
- Schlitze und Öffnungen Wenn das Gerät Schlitze oder Löcher im Gehäuse aufweist, dienen diese zur Vermeidung einer Überhitzung der empfindlichen Teile im Inneren. Diese Öffnungen dürfen niemals von anderen Objekten blockiert werden.
- Litium-Batterie Explosionsgefahr, falls die Batterie nicht richtig ersetzt wird. Ersetzen Sie verbrauchte Batterien nur durch den gleichen oder einen vergleichbaren Batterietyp, der auch vom Hersteller empfohlen wird. Entsorgen Sie verbrauchte Batterien bitte gemäß den Herstelleranweisungen.

#### Advertencia

- tación eléctrica Este equipo debe conectarse únicamente a la fuente/tipo de alimentación eléctrica indicada en el mismo. La alimentación eléctrica de este equipo debe provenir de un sistema de distribución general con conductor neutro a tierra. La tercera pata (puesta a tierra) es una medida de seguridad, no puentearia ni eliminaria
- Desconexión de alimentación eléctrica Para desconectar con seguridad la acometida de alimentación eléctrica al equipo, desenchufar todos los cables de alimentación en el panel trasero del equipo, o des módulo de alimentación (si fuera independiente), o desenchufar el cable del receptáculo de la pared.
- Protección del cables de alimentación Los cables de alimentación eléctrica se deben instalar en lugares donde no sean pisados ni apretados por objetos que se puedan apoyar sobre ellos
- Reparaciones/mantenimiento Solicitar siempre los servicios técnicos de personal calificado. En el interior no hay partes a las que el usuario deba acceder. Para evitar riesgo de electrocución, no intentar personalmente la reparación/mantenimiento de este equipo, ya que al abrir o extraer las tapas puede quedar expuesto a voltajes peligrosos u otros riesgos.
- Ranuras y aberturas Si el equipo posee ranuras o orificios en su caja/alojamiento, es para evitar el nsibles. Estas aberturas nunca se ecalientamiento de co mponentes internos s objetos.
- Batería de litio Existe riesgo de explosión si esta batería se coloca en la posición incorrecta. Cambiar esta batería únicamente con el mismo tipo (o su equivalente) recomendado por el fabricante. Desachar las baterías usadas siguiendo las instrucciones del fabricante.

# 警告

■ ● 该设备只能使用产品上标明的电源。 设备必须使用有地线的供电系统供电。 第三条线 (地线)是安全设施,不能不用或跳过。

- 拔掉电源 为安全地从设备拔掉电源, 请拔掉所有设备后或桌面电源的电源线, 或任何接到市电 系统的电源线。
- **电源线保护** 妥善布线, 避免被踩踏,或重物挤压。
- 维护 所有维修必须由认证的维修人员进行。 设备内部没有用户可以更换的零件。为避免出现触 电危险不要自己试图打开设备盖子维修该设备。
- 通风孔 有些设备机壳上有通风槽或孔,它们是用来防止机内敏感元件过热。 不要用任何东西 挡住通风孔。
- **锂电池** 不正确的更换电池会有爆炸的危险。必须使用与厂家推荐的相同或相近型号的电池。按 照生产厂的建议处理废弃电池。

#### **FCC Class A Notice**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

The Class A limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the user guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user is required to correct the interference at his own expense.

**NOTE:** This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance with FCC emissions limits.

For more information on safety guidelines, regulatory compliances, EMI/EMF compliance, accessibility, and related topics, **click here**.

The following advisories are used in the guide and have the following meanings:

TIP: A	tip provides a suggestion to make setting up or working with the device easier.	
NOTE:	A note draws attention to important information.	
CAUTIO	<b>N:</b> A caution warns of things that might damage the equipment.	
WARN	NG: A warning alerts the user to things that might cause injury, death, or other severe consequences.	]

#### Copyright

© 2010 Extron Electronics. All rights reserved.

#### Trademarks

All trademarks mentioned in this guide are the properties of their respective owners.

# Contents

#### 

About the TLP / UUIVIV and TLP / UUTV	I
Features	2
Requirements	3
Software	3
Hardware	3

## 

TLP 700MV Front Panel Features	
and Operations	4
TLP 700MV Rear Panel Features	
and Connections	6
TLP 700TV Front Panel Features	
and Operations	8
TLP 700TV Rear Panel Features	
and Connections	9
With Stand Attached	9
TLP 700TV Base Features	10

## Initial Calibration.....11

How to Access the Internal

On-screen Menus	11
Main Screen	11
Volume Screen	12
Time Screen	13
Network Screen	13
Video Screen	14
Touch Calibration Screen	14

# Control Software ......15

Accessories and Part Numbers	37
Included Parts Optional Parts	37 37

#### 

-	
Rack Mounting the TLP 700MV	. 38
Underwriters Laboratories Guidelines for	
Rack Mounting	. 38
Rack Mounting the TLP 700MV	. 38
Wall Mounting the TLP 700MV	. 39
Wall Mounting the TLP 700MV	
with a Wall Box	. 40
Desktop Mounting the TLP 700TV	. 41
Removing the TLP 700TV Base for	
VESA Mounting	. 41
VESA Mounting the TLP 700TV	. 45
-	

#### Button Labels ......47

Button Label Software	
Installing or Replacing Button Labels	
Button Label Generator Software	47
Installing the Button-Label	
Generator Software	47
Replacing Button Labels	49

# Introduction

This guide describes the function, installation and operation of the TouchLink TLP 700MV and TLP 700TV panels. The guide also provides information about optional accessories that are available from Extron for both panels.

Unless otherwise stated, the terms "TLP 700 series" and "TLP 700" refer to both models.

## About the TLP 700MV and TLP 700TV

The Extron TLP 700MV is a wall mounted TouchLink panel. The screen displays graphic objects and text, which are associated with user-defined functions. The touch overlay allows the user to initiate or activate functions by touching the objects on the screen.

The TLP 700TV comes with a stand that allows it to be placed on a desktop. If the stand is removed, the unit can be VESA<sup>®</sup> mounted on a wall or furniture, using the Extron VM 700T kit (part number **70-692-01**) or the Extron LPVM-1 kit (part number **60-1099-02**).

Both units have ten push buttons (five along each side of the screen) and an encoder knob that allow common, user-defined functions to be activated and calibrated independently of the LCD screen. The units can be customized by using a bezel kit to cover the buttons, the encoder knob, or both.

A motion sensor, light sensor, and a speaker provide auto dimming, sleep mode, and audible feedback.

The GUI Configurator software allows the user to design the screen layout by selecting from existing templates or designing entirely new interfaces on their PC and uploading the completed project to the TouchLink panel. The user can define the graphics and the functions associated with those graphics, providing versatility and adaptability to the configuration and control of an A/V system.



Figure 1. TLP 700MV Application Diagram

## **Features**

**7-inch LCD screen** — displays a range of graphic objects and text on an 800 x 480 pixel screen.

**Touch screen overlay** — provides simple and intuitive control over a range of functions by touching the icons displayed on the screen.

Video preview — allows composite or S-video previews.

**GUI Configurator and Global Configurator Software** — allows the user to design a custom graphical user interface and associate a range of different functions with objects in that display. No programming knowledge is needed.

**Easy configuration and flexibility** — on-screen graphics and text, as well as the functions associated with them, can be easily changed to adapt the control panel to the evolving needs of the system, avoiding the need for additional control modules.

Ten buttons — for common, user-defined functions.

**Ethernet connection** — provides an inexpensive, easily installed, cabling option for connecting products located anywhere else on the network.

**Compatible with most Extron IP Link® products** — allows easy integration into existing systems.

**Front panel encoder knob** — primarily for volume control, but can be configured for other functions.

**Light sensor** — adjusts LCD screen backlighting to compensate for ambient lighting.

**Motion sensor** — When no motion is detected for a user-defined period of time, the unit enters sleep mode to conserve power. When a user approaches the screen, the panel detects motion and is reactivated.

**Loudspeaker** — provides audible feedback in response to events triggered by the user.

**Multiple mounting options** — The TLP 700MV can be wall-mounted, rack-mounted, or furniture-mounted.

The TLP 700TV comes with a stand that allows it to be placed on a desktop. If the stand is removed, the unit can be VESA-mounted on a wall or furniture using either of the optional Extron kits.

See the list of **optional parts** on page 37 for the part numbers.

Color Options for TLP 700MV — The TLP 700MV is available in different color versions.

**Customization kits** — A range of kits are available to customize the TouchLink panel. See the list of **optional parts** on page 37 for the part numbers.

# **Requirements**

#### **Software**

The following minimum system requirements are recommended for running GUI Configurator or Global Configurator 3:

- Operating System Microsoft<sup>®</sup> Windows<sup>®</sup> XP SP2, Windows Vista<sup>®</sup>, or Windows 7
- CPU Intel<sup>®</sup> Pentium<sup>®</sup> III 1 GHz processor
- Memory 1 GB of RAM
- Hard Disk space 100 MB
- Microsoft .NET Framework 2.0
- Screen Resolution 1024 x 768 resolution at 32-bit color
- Network Connection Data transfer rate of 10 Mbps, 100 Mbps recommended

#### Hardware

An Extron IP Link control interface must also be connected to the same network domain as the TouchLink panel. Suggested models include:

- IPL T S series (for example, the IPL T S4)
- IPL 250
- IPL T CR48
- IPL T SFI244

# **Panel Features**

This section describes:

**TLP 700MV Front Panel Features and Operations** 

**TLP 700MV Rear Panel Features and Connections** 

- **TLP 700TV Front Panel Features and Operations**
- **TLP 700TV Rear Panel Features and Connections**

# **TLP 700MV Front Panel Features and Operations**



#### Figure 2. TLP 700MV Front Panel

- (1) Buttons These ten backlit push-buttons (five on either side of the screen) can be configured to execute user-defined functions using the Extron Global Configurator software (page 25). For information about creating button labels, see page 47.
- 2 Motion Sensor is capped with a small Fresnel lens that focuses light onto the sensor. When no motion has been detected for a user-defined period of time, the unit goes into sleep mode. When motion is detected in the vicinity of the panel, the screen display is restored and all buttons are active.
- ③ **Encoder Knob** controls the volume but it can be configured for other functions.
- Light Sensor monitors the level of ambient light and adjusts the screen brightness and button backlighting.
- (5) LCD screen has an 800 x 480 resolution with a touch overlay. A graphic user interface is designed using the Extron GUI Configurator software to display buttons, text, or icons on the screen (page 21). These can be configured for a range of user-defined functions, using the Extron Global Configurator software (page 26).
- 6 **Speaker** A single 2 watt speaker provides audible feedback for the user.

There are three buttons recessed behind the bezel. These buttons are used to configure the unit and reset parameters to factory defaults:



Figure 3. TLP 700MV Front Panel with Bezel removed

- Reboot button shuts down and restarts the unit without changing any of the parameters.
- 8 Reset button allows the unit to be reset in any of four different modes. For further information see "Reset Modes" on page 46.
- 9 Menu button activates the on-screen menus for calibrating the unit (see page 11).
- Reset LED is visible only when the bezel has been removed. It lights as an indicator for the Reset modes. For further information see "Reset Modes" on page 46.

# **TLP 700MV Rear Panel Features and Connections**





Power Connector — Connect the two pole, 3.5 mm captive screw connector from the provided power supply to the power supply socket on the rear panel. Ensure the connections have the correct polarity as shown below:





CAUTION: Always use a power supply supplied by or specified by Extron. Use of an unauthorized power supply voids all regulatory compliance certification and may cause damage to the supply and the end product. Extron power supplies are certified to UL/CSA 60950-1 and are classified as LPS (Limited Power Source). Use of a non-LPS or unlisted power supply will void all regulatory compliance certification. Unless otherwise stated, the AC/DC adapters are not suitable for use in air handling spaces or in wall cavities. The power supply is to be located within the same vicinity as the Extron A/V processing equipment in an ordinary location, Pollution Degree 2, secured to the equipment rack within the dedicated closet, podium or desk. The installation must always be in accordance with the applicable provisions of National Electrical Code ANSI/NFPA 70, article 75 and the Canadian Electrical Code part 1, section 16. The power supply shall not be permanently fixed to building structure or similar structure.

**NOTES:** The length of the exposed wires in the stripping process is critical. The ideal length is 3/16 inches (5 mm). Any longer and the exposed wires may touch, causing a short circuit between them. Any shorter and the wires can be easily pulled out even if tightly fastened by the captive screws.

Do not tin the wires. Tinned wire does not hold its shape and can become loose over time.

- Video Input Connect an S-video or composite video source to the unit, using these two BNC connectors:
  - For S-video, connect the Y (luminance) signal to the VID/Y input and the C (chrominance) signal to the C input.
  - For composite video, connect the input to the VID/Y input.
- 13 Network Connector The TLP 700MV connects to an Ethernet LAN using a twisted pair cable, terminated with an RJ-45 connector (see the figure at right). Use a straight-through Ethernet cable to connect the panel to a switch or router. Use a crossover cable to connect the panel directly to a computer.

Plug one end of the cable into the RJ-45 socket and the other end into a network switch, hub, or router that is connected to an Ethernet LAN or the Internet.

An Extron IP Link control interface must also be connected to the same network domain. **Suggested models** are listed on page 3.

The LAN Port connector (see the figure at right) has two LED lights. The Link LED lights green to indicate a good network connection. The Activity LED blinks yellow when network activity occurs.









# **TLP 700TV Front Panel Features and Operations**



#### Figure 6. TLP 700TV Front Panel Features

- (1) Buttons These ten backlit push-buttons (five on either side of the screen) can be configured to execute user-defined functions using the Extron Global Configurator software (page 25). For information about creating button labels, see page 47.
- 2 Motion Sensor is capped with a small Fresnel lens that focuses light onto the sensor. When no motion has been detected for a user-defined period of time, the unit goes into sleep mode. When motion is detected in the vicinity of the panel, the sleep mode is overridden and the screen display is restored.
- ③ **Encoder Knob** controls the volume but it can be configured for other functions.
- Light Sensor monitors the level of ambient light and adjusts the screen brightness and button backlighting.
- (5) LCD screen has an 800 x 480 resolution with a touch overlay. A graphic user interface is designed using the Extron GUI Configurator software (page 21) to display buttons, text, or icons on the screen. These can be configured for a range of user-defined functions, using the Extron Global Configurator software (page 25).
- 6 Speaker A single 2 watt speaker provides audible feedback for the user.
- Reset button recessed behind the bezel. It allows the unit to be reset in any of four different modes. For further information see "Reset Modes" on page 46.
- (a) Menu button recessed behind the bezel. It activates the on-screen menus for calibrating the unit (see page 11).
- Reset LED recessed behind the bezel. It lights as an indicator for the Reset modes. For further information see "Reset Modes" on page 46.

# **TLP 700TV Rear Panel Features and Connections**

## With Stand Attached



#### Figure 7. TLP 700TV Rear Features

The following connections are available through the back panel when the stand is in place:

- UED lights The Link LED lights green to indicate a good network connection. The Activity LED blinks yellow when network activity occurs.
- (1) RJ 45 connector to LAN Use straight-through twisted pair cable to connect the TLP 700TV to a network switch or router. Use a crossover cable to connect the panel directly to a PC. An Extron IP Link control interface must be connected to the same network domain. A list of suggested models is given on page 3.
- Power connector Connect the provided power supply to this 2-pole captive screw connector. See the Caution on page 8 and the Notes on page 9 for important information about the power supply.
- (3) RJ 45 connector to Extron MTP Transmitter Twisted pair input provides video and audio input.

CAUTION:	The left RJ-45 connector on the back of the TLP 700TV (with the yellow and green LEDs) must be connect to a network. The right RJ-45 connector must be connected to an Extron MTP Transmitter. The MTP transmitter uses higher voltages than a LAN and inputting those voltages on the network connection damages the TLP 700TV.
	voltages on the network connection damages the TLP 700TV.

**NOTE:** Audio input is available only from an Extron MTP transmitter through the RJ-45 connector in the base of the unit. If the base is removed from the TLP 700TV, connections are via BNC connectors and there is no audio input.

# **TLP 700TV Base Features**



#### Figure 8. TLP 700TV Base Features

The TLP 700TV stand, which can be removed for VESA mounting, has:

Three adjustable potentiometers — These are used to control sharpness and gain for both S-video luminance (Y) and S-video chrominance (C). If a composite video signal is being used, the gain is controlled by the center potentiometer (Vid/Y).



Figure 9. TLP 700TV Potentiometers

- (18) Access for disconnecting RJ-45 connectors When RJ-45 connectors are covered with a protective boot, it can be difficult to remove them from their sockets. The two holes are directly underneath the two RJ-45 jacks (see figure 7). Pushing the tip of a pen or pencil through the holes makes it easy to disconnect the RJ-45 connectors.
- Security mounting If required, secure the unit to the desktop, using two screws, as described on page 41.

# **Initial Calibration**

This section describes:

- How to Access the Internal On-screen Menus
- The Main, Volume, Time, Network, and Video Screens
- The Screen Touch Calibration Screen

# How to Access the Internal On-screen Menus

When power is first applied to the TouchLink Panel, the unit boots up and displays the opening screen. To access the on-screen menus, press the **Menu** button, which is located below the screen (see page 5 for the **TLP 700MV** or page 8 for the **TLP 700TV**).

The menus open at the Main screen. There are five different screens (Main, Volume, Time, Network, and Video) that can be selected by pressing the appropriate button at the left side of the screen.

There is also an **Exit** button at the bottom left corner of the screen for leaving the menus.

# **Main Screen**



The Sleep timer determines how long the panel is inactive before it enters Sleep mode, when the screen goes dark to save power. Press the **Down** or **Up** buttons to highlight the Sleep timer options and continue to use the buttons or use the volume control knob to adjust the time from 0 to 50,000 seconds (in 10-second increments). The time that is currently selected is shown above the buttons.

The screen may need a high level of backlighting to read the screen when ambient lighting is high. With low ambient lighting, the backlighting should be low.

Auto Backlight provides a suitable amount of backlighting that is automatically calculated from the amount of ambient light detected by the light detector.

When Auto Backlight is set to Off, the Backlight option allows the backlighting to be set manually from 0 to 100%. Press the **Down** or **Up** buttons to highlight the Backlight options and use the volume control knob or press the **Down** or **Up** buttons to adjust the backlighting. The current value is shown above the buttons.

**NOTE:** When Auto Backlight is set to On, changing the percentage of Backlight does not affect the amount of backlighting.

LED Backlight lights the ten buttons next to the screen.

Wake on Motion activates the panel from Sleep mode when motion is detected near the unit.

Use the on-screen buttons to toggle the Auto Backlight, LED Backlight, or Wake on Motion options between Off and On.

# **Volume Screen**



Click on the **Down** or **Up** buttons to highlight one of the adjustable audio features. Use the **Down** and **Up** buttons or the volume control knob to adjust:

- Master volume (between 0 and 255) sets the maximum volume for all the other sound volume settings. For example, if the master volume is set to 200 (approximately 80% of maximum), even when the Line In volume is set to 255 (maximum), it is only equivalent to 80% of maximum.
- Click (between 0 and 255) sets the volume for audible feedback that accompanies events such as a side button or screen button being pressed.
- Sounds (between 0 and 255) sets the volume of audio from any audio file playback.
- Line In (between 0 and 255) sets the volume of the audio signal received through the line in from and Extron MTP transmitter.

# **Time Screen**



Click on the **Down** or **Up** buttons to highlight one of the adjustable time settings. Use the **Down** and **Up** buttons or the volume control knob to adjust the Month, Day, Year, Hours, and Minutes.

**NOTE:** The Hours value uses the 24 hour clock. For 10 am, set Hours to 10; for 10 pm, set Hours to 22.

# **Network Screen**



Set the IP Address or Subnet Mask by pressing the appropriate button. An on-screen keypad appears that allows the user to enter digits from 0 through 9 or "." (dot). In the event of an error, the user can clear the field.

**NOTE:** The factory default IP address for the TLP 700MV is 192.168.254.254. The default subnet mask is 255.255.0.0. Consult with your IT Department to ensure these addresses are correctly assigned.

Toggle between **On** and **Off** to enable or disable Dynamic Host Configuration Protocol (DHCP). This determines whether the unit has a permanent IP address or has one provided by the network, when required. The default setting is off.

# **Video Screen**



The small gray rectangle provides a video preview window that allows the user to adjust the video properties.

Click on the **Down** or **Up** buttons to highlight one of the adjustable video settings. Use the **Down** and **Up** buttons or the volume control knob to adjust:

- Contrast between 0 and 127 (default, 64)
- Color between 0 and 127 (default, 64)
- Brightness between 0 and 255 (default, 128)
- Tint between 0 and 255 (default, 128)

# **Touch Calibration Screen**

After setting the values, press the **Menu** button a second time to calibrate the touch area of the Touchpanel.

![](_page_19_Picture_10.jpeg)

Press on the green box until the color reverts to gray with a white border and a second box is highlighted. Repeat until all four boxes have been pressed and calibrated. At that point the screen returns to the **Main screen** (see page 11).

To exit from the on-screen menus, press the **Exit** button in the bottom left corner of the menu screens.

# **Control Software**

This section of the guide discusses the software and firmware needed to set up the Touchpanel units:

- Software Overview
- Installing the Software
- Updating the Firmware
- Using the TouchLink Panel Web Pages
- Using GUI Configurator
- Using Global Configurator

### **Software Overview**

Designing a graphical user interface (GUI) for the TouchLink Panel takes two steps:

- Design the layout of the text and graphics using GUI Configurator
- Assign functions to the text and graphics using Global Configurator

The touchpanel screen is designed using GUI Configurator either by customizing an existing template or by designing an entirely new interface. GUI Configurator offers several templates that are designed to manage control system devices.

After the GUI has been designed on a PC, the project is saved, built, and uploaded to the TLP unit to verify what it looks like on the screen. It is then imported from the TLP unit to Global Configurator where control functions are assigned to the text and graphic items in the layout. After assigning the control functions, the project is rebuilt and uploaded to the IP Link control interface.

These two programs provide versatility and adaptability for configuration and control of an AV system as it grows and evolves.

# **Installing the Software**

#### **Installation from the Extron Disc**

Insert the disc provided into the DVD-ROM drive of the computer. If the setup program does not start automatically, run **Launch.exe** from the DVD-ROM directory in Windows **My Computer**. Select the **Software** tab, locate the GUI Configurator program and click **Install**. Follow the on-screen instructions.

By default, the Installer program creates and places the GUI Configurator program in the C:\Program Files\Extron\GUI Configurator folder. An icon may also be placed on the Windows desktop.

If required, locate the Global Configurator program on the disc or web site and install it. By default, the Installer program creates and places the Global Configurator program in the C:\Program Files\Extron\GCx.x folder, where x.x represents the current version of the Global Configurator program. During installation, there is an option to place an icon on the Windows desktop.

#### **Installation from the Extron Web Site**

Both programs can be downloaded from the Extron web site (**www.extron.com**). Select the **Download** tab and click on the **Software** option in the sidebar at the left.

![](_page_21_Picture_7.jpeg)

#### Figure 10. Extron Web Site Download Center

Navigate to GUI Configurator or Global Configurator and click **Download** next to the program. Follow the on-screen instructions to complete installation. A folder is created on the C drive and an icon may be placed on the desktop.

# **Updating the Firmware**

Firmware for the TLP 700 can be upgraded **using the Extron Firmware Loader** or **using your web browser**. Before starting, consult your IT team and ensure that the TLP 700 has a unique IP address.

#### **Updating Firmware Using the Extron Firmware Loader Utility**

NOTES: To use this method, you must have Extron Firmware Loader installed on your PC. The program can be downloaded and installed, free of charge, from the Extron web site, or the DVD (provided). Follow the directions given on page 16 for downloading and installing GUI Configurator and Global Configurator.
 Your PC must have internet access and be on the same network as the

TouchLink Panel.

- 1. On the Extron web site, select the **Download** tab and click on the **Firmware** option in the menu bar at the left of the screen (see Figure 10 on page 16).
- 2. Navigate to the TLP 700 firmware and click **Download**.
- **3.** The firmware downloads to your computer.

**NOTE:** Make a note of the folder in which the firmware file is saved.

- 4. Open the Extron Firmware Loader. The Add Device... window opens.
- 5. Select TLP 700MV or TLP 700TV from the device list.
- 6. Select **TCP / IP** from the connection method.
- **7.** Enter the IP address for the TLP 700, a Telnet port number, and, if necessary, the administrator password. Click **OK**.

The device name appears in the connected device box with a green check mark.

- 8. Use the **Browse** button to locate the Firmware file that you downloaded in step 3.
- **9.** Click the **Add** button. The main Firmware Loader window comes into focus with the TLP 700 in the device list.
- **10.** Highlight the TLP 700 and click on the **Begin** button. The firmware transfer begins and the progress is shown by a green bar in the Total Progress pane.
- **11.** When "Total Progress" shows 100% and Completed, exit the Firmware Loader.
- **12.** When the firmware is installed, calibrate the panel, using the **on-screen menus** (see page 11) or the **TouchLink panel web pages** (see page 19).

#### **Updating Firmware From a Web Browser**

**NOTES:** Your PC must have internet access and be on the same network as the TouchLink Panel.

- 1. On the Extron web site, select the **Download** tab and click on the **Firmware** option in the menu bar at the left of the screen (see **Figure 10** on page 16).
- 2. Navigate to the TLP 700 firmware and click **Download**.
- **3.** The firmware downloads to your computer.

**NOTE:** Make a note of the folder in which the firmware file is saved.

- **4.** Open your browser and type the IP address of the TLP 700 unit into the address box. The browser opens the **TouchLink Panel web pages** (see page 19).
- Click on the Configuration tab at the top of the page. Select Firmware Upgrade from the bar on the left. If prompted, enter the administrator password.

🚰 TLP 700TV Default We	b Page - Microsoft Internet Explorer
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	Iools Help
🌀 Back 🔹 🜍 🕤 💌	🖹 🟠 🔎 Search 👷 Favorites 🚱 🔗 🍓 🔳 🕛 🛄 🎇 🥸
Address 🙆 http://192.168.	254,254
Extron <sub>®</sub> I Status Configurati	Electronics 🖄
System Settings Passwords Firmware Upgrade	Firmware Upgrade This page allows you to upload a new version of the unit's firmware. The u incorrect file may cause your unit to stop working. Current Firmware Version: 1.00
www.extron.com	Browse Upload

#### Figure 11. Firmware Upgrade Web Page

- 6. Use the **Browse** button to navigate to the firmware file (see step 3).
- 7. Click **Upload**. The Touchpanel screen shows the message "Firmware Uploading... Please Wait...". The TouchLink Panel restarts after the firmware is loaded.
- When the firmware is installed, calibrate the panel, using the on-screen menus (see page 11) or the TouchLink panel web pages (see page 19).

# **Using the TouchLink Panel Web Pages**

As seen **in the previous section**, the TLP 700MV and TLP 700TV TouchLink Panels have default web pages that can be used to read and change the current settings of the panels. The web pages can be accessed as follows:

1. Open your browser and type the IP address of the TLP 700 unit into the address box. The browser opens the TouchLink Panel Status page, which is read-only and provides basic information about the model, date and time, and IP settings.

🐴 TLP 700TV Default We	b Page - Microsoft Internet Explorer			
Eile Edit View Favorites	Iools Help			<u></u>
🌀 Back 🔹 🕥 🐇 💌	👔 🏠 🔎 Search 👷 Favorites	🥝 🎯 - 🌺 🔳 - 🔜 🏭 🦓		
Address 1 http://192.168.2	254,254		<ul> <li>Image: A set of the set of the</li></ul>	🛛 Go Links 🍟 🍖 🗸
Extron F	Electronics (3)			
L'ACI OII® I	Acctionnes 🤤			
Status Configuratio	on Touchpanel		Logged on: Admin Log	800.633.987
1	Contraction of the Art			
A140 A 34	System Status			
~2	Below are your Unit's current s	ystem settings.		
"OLUTION"	To make changes, dick on the	'Configuration' tab.		
www.extron.com				
	System Description			
	Model:	TLP 700TV		
	Description:	7in Tilt with Video		
	Part Number:	60-548-02		
	Firmware:	1.00		
	Date	8/03/2009		
	Time:	2:43 PM		
	IP Settings			
	Unit Name:	7in-Tilt-with-V-04-A0-85		
	DHCP:	Off		
	IP Address:	192.168.254.254		
	Gateway IP Address:	0.0.0.0		
	Subnet Mask:	0.0.0.0		
	MAC Address:	00-05-A6-04-A0-85		
E Done				Local intranet

#### Figure 12. TLP 700 Status Tab

 Click on the Configuration tab and select the System Settings page, which allows the user to modify information about the IP settings and the date and time settings. These correspond to the Network settings (see page 13) and Time settings (see page 13) in the on-screen menus.

Status   Configuratio	n Touchpanel			Logged on: Admin L	og Off 🖾 Contact
tern Settings svords svære Upgrade	System Settings Below are your Unit's basic S changing your settings, pleas	ystem Settings. Most units will work e refer to the user guide.	with the default IP Settings w	ithout making any change	is. If you require help
143	IP Settings				
	Unit Name:	7in-Tilt-with-V-04-A0-85			
Suno"	DHCP:	O On 💿 Off	MAC Address:	00-05-A6-04-A0-85	
eve.extron.com	IP Address:	192.168.254.254	Firmware:	1.00	
	Gateway IP Address:	0.0.0.0	Model:	TLP 700TV	
	Subnet Mask:	0.0.0.0	Part Number:	60-548-02	
		Submi	Cancel		
	Date/Time Settings				
	Date:	I 🛩 3 🛩 2009 🛩 📃 Local Date	/Time		
	Time:	2 🛩 44 🛩 PM 🛩			
	Zone:	GMT-08:00) Pacific Time (US & Canada)	Tijuana	~	
	Daylight Saving:	Off OUSA OEurope OBra	il.		

Figure 13. TLP 700 Configuration Tab: System Settings Page

**3.** Selecting the **Passwords** page allows the user to set passwords for an Administrator and a User. To set a password, follow the instructions at the top of the page.

Status Configuratio	n Touchpanel			Logged on: Admin	Log Off	800.633.9
	Bacoworde					
em Settings	Passwords					
vords vare Upgrade	To update the Administration Pa	ssword, enter the desi	ired password, repeat the entry, and	press 'Submit'. To upda	ate the User	Password,
	enter the desired password, rep	eat the entry, and pre	iss 'Submit'. To clear a password, ent	ter a single space, repea	it the entry,	and press
	'Submit'. Minimum password le	oth is 4 characters. M	faximum password length is 12 charac	ters. Passwords are cas	te sensitive .	and special
	'Submit'. Minimum password le characters are not allowed.	igth is 4 characters. M	Aaximum password length is 12 charac	ters. Passwords are cas	se sensitive	and special
-	'Submit'. Minimum password le characters are not allowed.	igth is 4 characters. M	laximum password length is 12 charac	ters. Passwords are cas	se sensitive	and special
(3)	'Submit'. Minimum password le characters are not allowed.	igth is 4 characters. M	Aaximum password length is 12 charac	ters. Passwords are cas	se sensitive	and special
3	Submt <sup>2</sup> . Minimum password le characters are not allowed.	igth is 4 characters. M	Aaximum password length is 12 charac	ters. Passwords are cas	se sensitive	and special
3	Submit'. Minimum password le characters are not allowed.	igth is 4 characters. M	Aaximum password length is 12 charac	ters. Passwords are cas	se sensitive	and special
CO Verve extron.com	Submit: Minimum password le characters are not allowed. Passwords Administrator Password:	Igth is 4 characters. M	faximum password length is 12 charac Re-enter Admin Password:	ters. Passwords are cas	se sensitive .	and special
CO WWW. extron.com	"Submit". Minimum password le characters are not allowed. Passwords Administrator Password: User Password:	is 4 characters. M	faximum password length is 12 charac Re-enter Admin Password: Re-enter Liser Password:	ters. Passwords are ca	se sensitive .	and special
3	'Submit'. Minimum password le characters are not allowed. Passwords Administrator Password: User Password:	gth is 4 characters. M	faximum password length is 12 charac Re-enter Admin Password: Re-enter User Password:	ters. Passwords are ca	se sensitive .	and special

Figure 14. TLP 700 Configuration Tab: Passwords Page

- 4. To upgrade the unit firmware, select **Firmware Upgrade** and **follow the instructions on page 18**.
- Click on the **Touchpanel** tab, which allows the user to alter the TouchLink panel and volume settings. These correspond to the **Main** settings (see page 11) and **Volume** settings (see page 12) in the **on-screen menus**.

			Logged on: Admin Log Off	Contact U
ngs	Touchpanel Config Below are the settings for you	uration TouchLink Panel. These adjustments can also be made using the	e internal setup screens on the u	unit.
	Touchpanel Settings			
	Sleep Timeout:	Hours: 0 💌 Minutes: 14 🛩 Seconds: 40 🛩 Submit		
com	Wake on Motion:	⊙on ⊖off		
		Auto Backlight:		
	Backlight Setup:	Led Backlight: O On 💿 Off		
		Backlight Level 0 %		
	Volume Settings			
	Master Volume: 25	Down Up		
	Click Volume: 25	j Down Up		
	Sounds Volume: 12	Down Up		
	Line In Volume: 12	Down Up		

Figure 15. TLP 700 Touchpanel Tab: Configuration Page

# **Using GUI Configurator**

This section provides an overview of the GUI Configurator program. For complete information about the program, consult the GUI Configurator help file (click on **Contents** in the **Help** menu or press the <F1> key while within the program).

To use the GUI Configurator program, follow these instructions:

1. Click on the desktop icon. The program opens at the main screen with the **GUI Configurator Start Options** dialog box in front.

![](_page_26_Picture_4.jpeg)

Figure 16. GUI Configurator: Main and GUI Configurator Start Options Screens

![](_page_26_Figure_6.jpeg)

Figure 17. GUI Configurator Start Options Dialog Box

- **2.** You can choose to:
  - Start a New Project Clicking OK opens a dialog box that offers a choice of project options.

![](_page_27_Picture_2.jpeg)

#### Figure 18. GUI Configurator New Project Dialog Box

A series of icons offer you the choice of creating a project with a template or without a template and allow you to select the size and type of Touchlink Panel. If you are creating a project from an existing template, you can use the factory-loaded templates or you can select a template that you have previously created.

• **Open an Existing Project** — Clicking **OK** opens a dialog box that allows you to navigate to an existing project for modification.

Open							
Look in:	🚞 GUI Configurato	זכ	~	00	10	ł	Preview
My Recent Documents Desktop My Documents	Projects Reports Resources						Information Filename Application
My Computer	File <u>n</u> ame: [ Files of <u>type</u> : [	 Project Files ] Open as read-only			~	Qpen Cancel Help	Theme Creation Date Comments

#### Figure 19. GUI Configurator Dialog Box to Open an Existing Project

Navigate to the existing file and select it. A preview with information about the file appears in the pane on the right.

If you are working on the project, leave the **Open as read-only** box unchecked.

Click **Open** to open the file. The project opens in GUI Configurator.

• **Download an Existing Project from a Panel** — Clicking **OK** opens a dialog box that allows you to download a file that has been uploaded to a panel.

white and Project	
Panel	
IP Address/Host	
Admin Password	
Telnet Port	
23	
Save In: [C:\Documents and Settings\All Users\	Documents\Extron\GUI Configurator
Save In: [C:\Documents and Settings\All Users\ Browse	Documents\Extron\GUI Configurator
Save In: [C:\Documents and Settings\All Users\ Browse After Download	Documents\Extron\GUI Configurator
Save In: C:\Documents and Settings\All Users\ Browse After Download Open the project	Documents\Extron\GUI Configurator
Save In: C:\Documents and Settings\All Users\ Browse After Download Ø Open the project Ciose Download Manager	Documents\Extron\GUI Configurator
Save In: C:\Documents and Settings\All Users\ Browse After Download Ø Open the project Ø Close Download Manager	Documents\Extron\GUI Configurator

#### Figure 20. GUI Configurator Download Project Dialog Box

In the dialog box that opens, enter the IP address of the panel and use the **Browse** button to navigate to a folder where the file will be saved.

#### Check Open the project and Close Download Manager.

Click on **OK**. The project is downloaded to your computer and opens in GUI Configurator.

**3.** Depending on which option was selected in step **2**, GUI Configurator opens to a new or an existing project. The initial screen is divided into a series of panes offering a range of tools that can be used to design or modify the project. For full details on how to use these tools, consult the help file (in the **Help** menu click on **Contents** or press the <F1> key while within the program).

![](_page_29_Figure_1.jpeg)

#### Figure 21. GUI Configurator Main Screen

- 4. To save the project, select Save Project from the File menu. The project file is saved. If this is the first time saving the project file, the Save As dialog box appears. If the Save As dialog box appears:
  - a. Browse for the location where the project file is to be saved.
  - **b.** Enter a file name for the project.
  - c. Click Save.
- **5.** The project can be uploaded to one or more TouchLink Panels. To add a panel, to which the project can be uploaded:
  - 📕 GUI Configurator [Project1.gui\*] Project Edit View Window Draw Layout Tools Help File Add 🕨 🛅 Page Popup Page Worksp 🗹 Verify Chrl+B Modal Popup Page 8 ÷ Upload Changes to Selected Panels... Panel Upload to Selected Panels... Project Report... 1 View Build Errors... Auto-Assian Object IDs. Properties.. F4

**a.** From the **Project** menu, select **Add** > **Panel**:

Figure 22. Add a TouchLink panel (a)

**b.** The **Panel Manager** dialog box opens:

nels (1) Rati 📭		L 10 - 🖵	Properties	
lame	Address	Port	Z¥	
anel1	192.168.254.254	23		

#### Figure 23. Add a TouchLink panel (b)

![](_page_30_Picture_3.jpeg)

- **c.** Click on the Add Panel icon to add a new panel to the list in the left pane.
- **d.** Highlight the name of the panel in the left pane to display the properties of that panel in the right pane.
- e. When a new panel is added, it has the default IP address (192.168.254.254). To change the IP address, highlight the address property and type in the correct IP address. Update any other properties, as required.
- **f.** Repeat steps **a e** to add further panels, if required.
- 6. To upload a project to a TouchLink panel:
  - a. From the Project menu, select Upload to Selected Panels. The Build Manager dialog box opens, showing the build progress. Once the build is complete, this dialog box closes and the File Upload Manager screen opens. The upload begins automatically.
  - b. Select Close this dialog when upload completes checkbox in the Automatic Settings section so that the File Upload Manager screen closes automatically once the upload completes. This option can be set before or during the upload.

If this project has been uploaded to the TouchLink Panel before, you can choose to upload the changes that have been made to the previous upload. You can also choose to upload to certain TouchPanels from the list of TouchLink Panels found within the Devices section of the **File Upload Manager** screen during the upload process.

# **Using Global Configurator**

**NOTE:** To configure a TouchLink Panel, you must use Global Configurator version 3.0 or later.

This section provides an overview of the Global Configurator program. For complete information about the program, consult the Global Configurator help file (click on **Contents** in the Help menu or press the <F1> key while within the program).

These instructions describe how to set up Global Configurator project with an IPL 250. Setting up a project with another IP Link product is similar but you should consult the Global configurator help file for exact information about the product you are using.

1. Click on the GC3 desktop icon. The **Global Configurator 3 Start Options** box opens.

Global Configurator 3 Start Options	
Select Start Option	
Create A New Project	
C Open An Existing Project	
C View Global Configurator Help File	
C Import Project Configuration	
Do not show this dialog again.	
Add Driver Subscriptions	Exit

Figure 24. Global Configurator 3 Start Options

2. Select Create A New Project and click OK. The dialog box closes, leaving the Project Settings screen.

Project Settings
IP Skins
Default Device Settings
Next Assigned IP Address: 192 168 254 254
✓ Update Default IP Address with Last IP Address Entered
✓ Assign Default IP Address
DNS IP Address: 0 . 0 . 0 . 0
Domain Name:
Default Connection
Telnet Port: 23 🕂 HTTP (Web) Port: 80 🛨
Admin Password: Verify:
User Password: Verify:
Date/Time Sync IP Link device's time and date to PC's time and date Davlight Saving:
Time Zone: (GMT) Greenwich Mean Time : Dublin, Edinburgh 💌
Globa/Viewer
☞ Set Device as GlobaWiewer Host
Project
Default Download Setting on Add Device Dialog
None     O Device Configuration
GlobalViewer Network Speed: Medium
Cancel

### Figure 25. Global Configurator Project Settings

**3.** Enter the IP Address for the TLP 700MV panel.

The default Telnet connection is port 23 and HTTP is port 80, so these values do not usually need to be changed.

If necessary, set administrator and user passwords.

If required, set the date and time.

Leave the Set Device as GlobalViewer Host box checked.

**4.** Click **OK** and the Project Settings screen closes and is replaced by the **Add Device** dialog box:

Add Device		
Add Device IP Link Device: [PL 250 Select Connection Method C TCP C Serial TCP Basic <<< Name/IP Address: [132.168.254.254 Display Name: [PL 250 : 132.168.254.254 Jisplay Name: [PL 250 : 132.168.254.254 Wake this device a Global/iewer Host Teinet Port: [23] Web Port: [80] # Admin Password: User Password: Download Settings C None C Download Device Configuration Auto Configure IP Address MAC Address [00.05:A6: Set]	GlobalViewer Tree	
		OK Cancel

#### Figure 26. Global Configurator Add Device Dialog Box

To see all the options, click on the **Advanced** >>> button. The button name changes to **Basic** <<< (as shown in the figure above).

- **a.** Select the IP Link device from the drop-down menu. In figure 26, above, an IPL 250 controller is added. Adding a different IP Link product is similar.
- b. Enter the IP address of the IP Link controller. The default value is 192.168.254.254, but this may have been changed. Check with your IT Department to verify the address.
- **c.** Enter a Display Name into the text box. This is what the device will be known as in the Global Configurator project.
- **d.** (Optional) Check the **Make this device a GlobalViewer Host** checkbox.
- e. Set the telnet port (usually 23) and the web port (usually 80).
- f. If the controller is password protected, enter the password now.
- **g.** In the right pane, set up a GlobalViewer tree. For information about this, refer to the Global Configurator help file.

**5.** Click **OK** and the **Add Device** screen closes. The start-up screen, which was behind it, is now visible. The device configuration tree, in the panel to the left of the main screen, shows the IPL 250 and the available ports:

🕸 Untitled* - GC3			
File Edit View Build Tools Help			
Image: Second Processory 192       General Second Processory 192         Image: Second Processory 192       Second Processory 192         Image:	or	MAC Address: 00-05A6- ect Input Ports, Four Relay Ports, Four II unications Settings The IP Address field is populated d IP address field is populated d IP address risus be changed here with the device via its new IP addr configuration process. To change the IP Address used to selected device, select the button Address field. This will present the "Type" dialog that will allow you to will also allowy you to select DHC P choose a Serial Port connection if configuration using a single serial d	Firmware Version: Unknown A Pots writing the Add Device evice changes, the new to GC3 can communicate ses during the ses during the communicate with the to the right of the IP Select a Connection hange the IP Address. It addressing mode, or to rou are creating a evice.
	Date/Time Settings Daylight Savings Off	+ Sync IP Link device's time a	ind date to PC's time and date
Refresh	Time Zone: (GMT) Greenwich	Mean Time Dublin, Edinburgh, Lisbon	London, Casablanca, Mor <u>*</u>
Ready			

Figure 27. Configuring an IP Link Device

6. Select **Touchpanel Port 1**. The screen shows the available options for the TouchLink Panel. To add the GUI Configurator project that was uploaded to the TouchLink Panel, click **Click here to add one**.

🔮 Untitled* - GC3	
File Edit View Build <u>Tools</u> Help	
Image: Second	IP Link Settings       Schedule       Monitor       Panel Button Configuration       Panel Settings         Pages       Button Properties       Feedback       Room Mode       C 1 C 2         Comparison       Add Layout       Room Mode       C 1 C 2         There is no touch panel associated with this port.       Click here to add one
Ethernet Port 2     Ethernet Port 3     Ethernet Port 4     Ethernet Port 4     Ethernet Port 5     Ethernet Port 6     Touch Panel Port 6     Touch Panel Port 1     Touch Panel Port 1	Button Operations Time Delay Touch Panel User-Defined State Control Press Service Toggle
Ready	NUM

Figure 28. Adding a TouchLink panel

- 7. The Add TouchPanel dialog box opens.
  - **a.** Ensure the correct model is selected from the drop-down menu.
  - **b.** Enter the IP address for the TouchLink Panel.
  - c. Set the Telnet Port (usually 23).
  - **d.** If necessary enter the password.
  - e. Select the Import/Apply Layout check box.
  - f. Click OK.

Add Touch Panel	<i>N</i> <b>1</b>		×
Model: JTLP 700r	4V I		
TCP			
Name/IP Address:	192.168.254.255		Basic <<<
Display Name:	TLP 700MV : 192.168.254.255		
Telnet Port:	23 *		
Admin Password:			
Auto Configure I	P Address		
MAC Address:	00-05-A6-	Set	
Import/Apply La	yout		OK Cancel

Figure 29. Add Touchpanel Dialog Box.

8. The window now shows the GUI from the TouchLink Panel.

![](_page_35_Figure_11.jpeg)

**9.** For complete instructions on how to assign functions to the buttons on the screen, see the Global Configurator help file, which is opened by clicking on **Contents** in the **Help** menu, or by pressing the <F1> key while within the program.

# Specifications

#### Display

Screen type	Active matrix TFT color display
Size	7" (17.8 cm), measured diagonally
Resolution	800x480
Dot/pixel pitch	134 dpi
Aspect ratio	Widescreen
Color depth	18 bit, 256k colors
Transparency	8 bit alpha channel
Brightness	400 nits (cd/m <sup>2</sup> )
Contrast	300:1
Backlight	High bright LED
Viewing angle	±70° horizontal, +50°/-70° vertical
Touch screen	Resistive membrane

#### Memory

SDRAM	128 MB for graphics processing
	8 MB for system use
Flash	32 MB for project storage
	16 MB for system use

# **Control — Ethernet interface**

Ethernet control/communications port

	1 RJ-45 female connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ICMP, IP, TCP (control), UDP, DHCP, Telnet
Default settings	Link speed and duplex level: autodetected
	IP address = 192.168.254.254
	Subnet mask = 255.255.0.0
	Default gateway = 0.0.0.0
	DHCP = off
Program control	Extron Global Configurator 3.0 or higher
	GUI Configurator for Windows <sup>®</sup>
	Extron Simple Instruction Set (SIS™)
	Microsoft® Internet Explorer® ver. 6 or higher, Telnet

## **Control** — **Touchpanel**

Motion sensor	On/off
Light sensor	On/off
External buttons	10 backlit, dual color (white, blue), field labelable

# Video input

Number/signal type	1 S-video or composite video
Connectors	2 female BNC
Nominal levels	1 Vp-p for Y of S-video and for composite video 0.3 Vp-p for C of S-video
Impedance	75 ohms
Standards	NTSC, PAL

# Audio output

Speaker output Frequency response	1 mono, 86 dB SPL, 0.1 watt, 0.1 m, half space 400 Hz to 15 kHz, ±5 dB
Playback format(s)	WAV files: 8 bit PCM, mono, 8 kHz sampling
General	100  M to $240  M$ C EQ CO Us outsmall to $12  MDC$ 1.4 regulated
Power input requirements	
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
	With entional kit
Furpiture or wall mount	
Enclosure type	Tastic
Faceplate	7.1" H x 10.5" W x 0.6" D
	(18.0 cm H x 26.8 cm VV x 1.4 cm D)
Enclosure	Including knob, excluding mounting hange: 6 3" H x 9 4" W x 2 8" D*
	(16.0 cm H x 23.8 cm W x 7.2 cm D*)
	*In-wall depth, excluding knob: 2.25" (5.7 cm)
	(Allow at least 2.75" [7.0 cm] depth in the wall/furniture.)
	10.507" (26.69 cm)
	6.316" (16.04 cm) 7.056" (17.92 cm)
	SIDE VIEW FRONT VIEW
	2.816" 0.568" 2.248" (7.15 cm) (1.44 cm) (5.71 cm)
	9 366"
	(23.79 cm)
	TLP 700MV BOTTOM VIEW
Product weight	2.3 lbs (1.0 kg)
Shipping weight	5 lbs (3 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Satety	
EMI/EMIC	LE, L-TICK, FLL LIASS A, ILES, VLLI
MTBF	30,000 hours

Warranty...... 3 years parts and labor; touchscreen display and overlay components are covered for 1 year

**NOTES:** All nominal levels are at ±10%.

Specifications are subject to change without notice.

# Specifications

### Display

Screen type	Active matrix TFT color display
Size	7" (17.8 cm), measured diagonally
Resolution	800x480
Dot/pixel pitch	134 dpi
Aspect ratio	Widescreen
Color depth	18 bit, 256k colors
Transparency	8 bit alpha channel
Brightness	400 nits (cd/m <sup>2</sup> )
Contrast	300:1
Backlight	High bright LED
Viewing angle	±70° horizontal, +50°/-70° vertical
Touch screen	Resistive membrane

#### Memory

SDRAM	128 MB for graphics processing
	8 MB for system use
Flash	32 MB for project storage
	16 MB for system use

## **Control — Ethernet interface**

Ethernet control/communications port

	With base attached: 1 female RJ-45 connector Without base: 1 RJ-45 male connector on a pigtail
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ICMP, IP, TCP (control), UDP, DHCP, Telnet
Default settings	Link speed and duplex level: autodetected IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Default gateway = 0.0.0.0 DHCP = off
Program control	Extron Global Configurator 3.0 or higher GUI Configurator for Windows® Extron Simple Instruction Set (SIS™) Microsoft® Internet Explorer® ver. 6 or higher, Telnet

## **Control** — **Touchpanel**

Motion sensor	On/off
Light sensor	On/off
External buttons	10 backlit, dual color (white, blue), field labelable

## Video input — see S-video or composite video MTP transmitters' specifications

Number/signal type	1 S-video or composite video
Connectors	With base attached: 1 female RJ-45 connector
	Without base: 2 male BNC connectors on pigtails
Standards	NTSC, PAL

# Audio input — see S-video or composite video MTP transmitters' specifications

**NOTE:** Audio input is available only from an Extron MTP transmitter through the RJ-45 connector in the base of the unit. If the base is removed from the TLP 700TV, connections are via BNC connectors, and there is no audio input.

 Number/signal type
 1 stereo, balanced/unbalanced, line level, as part of a set of proprietary signals from an Extron MTP

 Connector
 1 female RJ-45 (shared with video input)

#### **Audio output**

Speaker output	1 mono, 80 dB SPL, 0.1 watt, 0.1 m, half space
Frequency response	500 Hz to 16 kHz, ±5 dB
Playback format(s)	WAV files: 8 bit PCM, mono, 8 kHz sampling

#### General

External power supply	100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 3 A, regulated		
Power input requirements	+12 VDC, 0.75 A		
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing		
Cooling	Convection, vents on top rear		
Mounting			
Furniture or wall mount	Set on tabletop or mount to optional VESA D 75 mm panel mount kit		
Adjustment ranges	Tilts through a 45° range		
Enclosure type	Plastic		
Enclosure dimensions	7.7" H x 9.4" W x 8.2" D		
	(19.6 cm H x 23.9 cm W x 20.7 cm D) (Includes base. Total height and depth depends on screen tilt. See the following diagrams.)		

![](_page_41_Picture_0.jpeg)

TLP 700 TV

![](_page_41_Figure_2.jpeg)

NOTES: All nominal levels are at ±10%.

Specifications are subject to change without notice.

# Accessories and Part Numbers

# **Included Parts**

Description	Part Number
TLP 700MV TouchLink Panel (wall mount)	60-546-0x
TLP 700TV TouchLink Panel (desktop or VESA mount)	60-548-02
12 VDC, 1A power supply for TLP 700MV	70-775-01
12 VDC, 3A power supply for TLP 700TV	70-380-01
TR 700M trim ring (for TLP 700MV)	
TLP 700MV button labels	33-1792-01
TLP 700TV button labels	33-1793-01
Extron Software Products DVD	
TLP 700MV • Setup Guide or TLP 700TV • Setup Guide	

# **Optional Parts**

Description	Part Number
RM 700M rack mounting kit for TLP 700MV	70-683-01
BB 700M back box for TLP 700MV	70-690-01
EWB 700 box for TLP 700MV	60-1100-0 <i>x</i>
VM 700T VESA mounting plate for TLP 700TV	70-692-01
LPVM-1 VESA mounting kit for TLP 700TV	60-1099-02
Bezel kit for TLP 700MV	60-546-0x
Bezel kit for TLP 700TV	60-548-02
TLP 700MV button labels (default side buttons)	33-1792-02
TLP 700TV button labels (default side buttons)	33-1793-02
IPL T S1	60-801-81
IPL T S2	60-544-81
IPL T S4	60-544-83
IPL T S6	60-544-84
IPL 250	60-1026-81
IPL T CR48	60-544-05
IPL T SFI244	60-544-86
4-pin Mini DIN Female to 2 BNC Male Adapter - various lengths	26-354-0x

# Mounting

This section outlines the various options for:

- Rack Mounting the TLP 700MV
- Wall Mounting the TLP 700MV
- Wall Mounting the TLP 700MV with a Wallbox
- Desktop Mounting the TLP 700TV
- Removing the TLP 700TV base for VESA Mounting
- VESA mounting the TLP 700TV

# **Rack Mounting the TLP 700MV**

#### **Underwriters Laboratories Guidelines for Rack Mounting**

The following Underwriters Laboratories (UL) guidelines are relevant to the safe installation of these products in a rack:

**Elevated operating ambient temperature** — If the unit is installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, install the equipment in an environment compatible with the maximum ambient temperature (Tma: +122 °F, +45 °C) specified by Extron.

**Reduced air flow** — Install the equipment in the rack so that the equipment gets adequate air flow for safe operation.

**Mechanical loading** — Mount the equipment in the rack so that uneven mechanical loading does not create a hazardous condition.

**Circuit overloading** — Connect the equipment to the supply circuit and consider the effect that circuit overloading might have on overcurrent protection and supply wiring. Give appropriate consideration to the equipment nameplate ratings when addressing this concern.

**Reliable earthing (grounding)** — Maintain reliable grounding of rack-mounted equipment. Pay particular attention to supply connections other than direct connections to the branch circuit (such as the use of power strips).

#### **Rack Mounting the TLP 700MV**

The TLP 700MV can be mounted in any standard 19-inch equipment rack, using the optional Extron RM 700M rack mounting kit (part number **70-683-01**). Follow the instructions provided with the kit.

# Wall Mounting the TLP 700MV

The TLP 700MV can be mounted in the wall or through furniture. Extron recommends using the Extron TR 700M trim ring to conceal any ragged edges when the hole is cut in the wall or furniture.

To mount the TLP 700MV directly into a wall, follow these steps. The steps are similar if the unit is mounted in furniture (such as a podium or table).

- 1. Determine the best location for the TLP 700MV.
- **2.** Use the template provided to mark the wall or furniture and cut a hole.
- **3.** Unpack the TLP 700MV and remove the bezel.
- **4.** Ensure all the locking arms are flush with the unit and check that the TLP 700MV can fit into the hole. If necessary, use a rasp or a coarse file to enlarge the hole.
- **5.** Place the TR 700M trim ring around the hole. Ensure the trim ring is horizontal (use a level if necessary) and mark the four holes (one in each corner) where it will be secured around the hole.
- 6. Drill four holes and secure the trim ring to the wall, covering any ragged edges to the hole.
- **7.** Run the network cable and video connectors inside the wall to the hole, leaving enough slack in the cables to connect them to the back of the TLP 700MV.
- 8. Plug the cables into the rear panel connectors (see page 7).

Connect the **LAN port** to the network with a straight-through cable.

Connect an **S-video or composite video** source to the unit, using the two BNC connectors:

- For S-video, connect the Y (luminance) signal to the VID/Y input and the C (chrominance) signal to the C input.
- For composite video, connect the input to the VID/Y input.

Connect the **power input** to the provided power supply using the 2-pole captive screw connector. See the **Caution** on page 6 for very important information about power supplies.

- **9.** Push excess cables into the wall cavity and fit the TLP 700MV into the hole.
- **10.** Use a Phillips head screwdriver to tighten the screws. As the screws tighten, the locking arms rotate into position behind the wall and hold the unit in place. Do not overtighten the screws as this can damage the catches or the wall.

![](_page_45_Figure_0.jpeg)

Figure 31. Secure the TLP 700MV to a Wall With Locking Arms

- **11.** If required, perform the **initial calibration** (see page 11).
- **12.** Replace the bezel by pressing the catches on the bezel into the corresponding holes on the front of the panel.

# Wall Mounting the TLP 700MV with a Wall Box

The TLP 700MV can be wall mounted using either the Extron BB 700M (part number **70-690-01**) or the Extron EWB 700 (part number **60-1100-0***x*). In either case follow the instructions provided with the wall box.

# **Desktop Mounting the TLP 700TV**

The TLP 700TV comes assembled with a stand that allows it to be placed on a desktop. If required, the stand can be removed and replaced with the Extron VM 700T kit (part number **70-692-01**). This kit fits into any third-party VESA Type D 75 mm wall mount system.

To mount the TLP 700TV on a desktop, place the unit in a suitable position and, if required, use two screws through the two holes in the base to secure the unit to the desktop.

![](_page_46_Figure_3.jpeg)

![](_page_46_Figure_4.jpeg)

#### Figure 32. Base of TLP 700TV

- 1. Drill two holes through the desktop from underneath. The two holes must be 5.1 inches (13 cm) apart.
- **2.** Use two 8-32 wood screws through the desktop from underneath into the two holes in the base.

Insert the power supply, the network, and twisted pair video cables to the connectors on the back of the stand.

**CAUTION:** The left RJ-45 connector on the back of the TLP 700MV (with the yellow and green LEDs) must be connect to a network. The right RJ-45 connector must be connected to an Extron MTP Transmitter. The MTP transmitter uses higher voltages than a LAN and inputting those voltages on the network connection damages the TLP 700MV.

# **Removing the TLP 700TV Base for VESA Mounting**

Extron provides two kits for wall mounting the TLP 700TV.

- The VM 700T is an adapter that is used to mount the TLP 700TV to any third party VESA D-type (75 x 75 mm) mounting kit.
- The LPVM-1 is used to wall mount a monitor with either the B-type (20 x 50 mm) or the D-type (75 x 75 mm) mounting patterns.

CAUTION:	The maximum loads for the LPVM-1 are:
	<b>VESA B —</b> 4.4 pounds (2 kg)
	VESA D — 30.8 pounds (14 kg) if the LPVM-1 is mounted directly
	to the wall, not a mud ring.

To use either of these kits, it is essential to remove the base and the plastic enclosure from the back.

**NOTE:** When the base is removed from the TLP 700TV, video connections are via BNC connectors, and there is no audio input.

To prepare the TLP 700TV for wall mounting, using either kit, follow these instructions:

- **1.** Remove the TLP 700TV from its packaging or, if the TLP 700TV has previously been used as a free-standing, desktop unit, remove all cables to the back of the base.
- 2. At the bottom, the two plastic cover plates for the stand are held together by a Phillips head screw near the base. Remove the screw in the recessed slot at the front of the stand, close to the base.

![](_page_47_Picture_3.jpeg)

Figure 39. Remove Screw.

**3.** At the top, the two plastic plates covering the stand are held together by four locking tabs on the back cover plate fitting into four slots on the front cover plate. Squeeze the sides of the front plate at the top so that the tabs are no longer seated in the slots.

![](_page_47_Picture_6.jpeg)

Figure 40. Squeeze Sides of the Back Cover.

**4.** Remove the back cover to reveal the metal stand and the cables connecting the circuit board in the base to the touchpanel screen.

![](_page_48_Picture_1.jpeg)

Figure 41. Remove Back Cover.

- **5.** Cut the plastic tie holding the cables to the metal stand.
- **6.** Disconnect the power, LAN, audio, LED, and two BNC cables from the circuit board in the base.
- 7. Remove the snake-skin cover protecting the cables.

![](_page_48_Picture_6.jpeg)

Figure 42. Steps 5, 6, and 7

**8.** Tilt the screen down to reveal the Phillips head screws securing the monitor to the hinged bracket at the top of the stand. Remove and save the screws for later use.

![](_page_48_Picture_9.jpeg)

Figure 43. Remove Screws.

**9.** Thread the cables through the gap between the top bracket and the stand. Place the screen, face down, on a soft cloth.

![](_page_49_Picture_1.jpeg)

Figure 44. Thread Cables into Place.

**10.** Remove and save the three Phillips head screws holding the plastic molding to the back of the screen.

![](_page_49_Picture_4.jpeg)

Figure 45. Remove Molding.

- 11. Disconnect the audio, LED, and power cables from the back panel of the screen.
  - The audio cables are the black and white pair, wound around a ferrite core.
  - The power cables are the red and black pair, terminated with a blue, 2-pole captive screw connector.
  - The LED cables are the black and white pair, without a ferrite core.

![](_page_50_Picture_4.jpeg)

Figure 46. Disconnect Cables.

![](_page_50_Figure_6.jpeg)

**12.** Replace the orange 2-pole captive screw connector on the provided power supply with the blue connector from the power cable disconnected in step **11**.

CAUTION:	The power supply provided with the TLP 700TV is intended for use				
	with the power supply input in the base. To use the power supply				
	with the rear panel power input, the captive screw connector must be				
	replaced.				

# **VESA Mounting the TLP 700TV**

Before attaching the VESA mounting kit, remove the base and back of the TLP 700TV, as described in the **previous section**.

Once the base and back have been removed, the TLP 700TV can be VESA mounted using either the Extron LPVM-1 (part number **60-1099-02**) or the Extron VM 700T mounting plate (part number **70-692-01**).

**NOTE:** The Extron VM 700T only provides a mounting plate, which is attached to the back of the TLP 700TV. It must be used together with a third party VESA mounting kit.

To VESA mount the TLP 700TV with the LPVM-1, follow the instructions provided with the mounting kit. To mount the TLP 700TV with the VM 700T and a third-party VESA mounting kit, follow the instructions provided with the VM 700T and the third-party kit.

# **Reset Modes**

The TLP 700MV and TLP 700TV have four reset modes that correspond to four of the five reset modes for the IP Link controllers. The modes are initiated by pressing the Reset button.

To access the Reset button on the TLP 700MV, remove the bezel. See page 5 to locate the **Reset button on the TLP 700MV**. The Reset button on the TLP 700TV is recessed behind the bezel, which cannot be removed. It is necessary to use a pen or paper clip to press it. See page 8 to locate the **Reset button on the TLP 700TV**.

TLP 700MV and TLP 700TV Reset Mode Summary						
	Mode	Activation	Result	Purpose/Notes		
actory ware	1	Hold down the recessed Reset button while applying power to the TLP 700. <b>NOTE:</b> After a mode 1 reset is performed, update the TLP 700 firmware to the latest version. Do	The TLP 700 reverts to the factory default firmware. Event scripting does not start if the TLP 700 is powered on in this mode. All user files and settings (drivers, adjustments, IP settings, etc.) are maintained. <b>NOTE:</b> If you do not want to update firmware, or you performed a mode 1 reset by mistake, cycle	This mode reverts to the factory default firmware version if incompatibility issues arise with user-loaded firmware.		
Use F Firm		not operate the firmware version that results from this mode reset. If you want to use the factory default firmware, you must upload that version again. See page 17 for details on uploading firmware.	power to the TLP 700 to return to the firmware version that was running prior to the mode 1 reset. Use the 0Q SIS command to confirm that the factory default firmware is no longer running (look for asterisks following the version number).	NOTE: User-defined web pages may not work correctly if using an earlier firmware version.		
<mark>9</mark> S	3	Hold down the Reset button for	This Mode turns events on or off.	This mode is useful for troubleshooting.		
Run/Sto Event		about 3 sec. until the Reset LED blinks once, then release and press Reset momentarily (<1 sec.) within 1 second.	<b>NOTE:</b> Nothing happens if the momentary press does not occur within 1 second.			
Reset all IP Settings	<ul> <li>Hold down the Reset button for about 6 sec. until the Reset LED blinks twice (once at 3 sec., again at 6 sec.). Then release and press Reset momentarily (for &lt;1 sec.) within 1 second.</li> <li>NOTE: Nothing happens if the</li> </ul>		<ul> <li>This Mode:</li> <li>Enables ARP capability.</li> <li>Sets the IP address back to factory default (192.168.254.254).</li> <li>Sets the subnet back to factory default.</li> <li>Sets the default gateway address to the factory default.</li> <li>Sets port mapping back to factory default.</li> </ul>	This mode enables you to set IP address information using ARP and the MAC address.		
		within 1 second.	<ul><li>Turns DHCP off.</li><li>Turns events off.</li></ul>			
Reset to Factory Defaults	5	Hold down the Reset button for about 9 sec. until the Reset LED blinks three times (once at 3 sec., again at 6 sec., again at 9 sec.). Then release and press Reset momentarily (for <1 sec.) within 1 second. <b>NOTE:</b> Nothing happens if the momentary press does not occur	<ul> <li>This Mode performs a complete reset to factory defaults (except the firmware).</li> <li>Does everything mode 4 does.</li> <li>Removes button/touchpanel configurations.</li> <li>Resets all IP options.</li> <li>Removes scheduling settings.</li> <li>Removes/clears all files from TLP 700.</li> </ul>	This mode is useful if you want to start over with configuration and uploading, and also to replace events.		

# **Button Labels**

This section provides information about:

- Button Label Software
- Replacing Button Labels

# **Button Label Software**

#### **Installing or Replacing Button Labels**

Printed labels are included with the TLP 700MV and TLP 700TV. In addition, users can write on blank labels, purchase additional sheets of printed button labels from Extron (see page 37) or print their own customized button labels with the Button Label Generator program. Replacement button caps are also available for purchase.

#### **Button Label Generator Software**

The Button Label Generator software creates labels that you can place in the translucent covers above the buttons. You can create labels with names, alphanumeric characters, or color graphics for easy and intuitive input and output selection.

#### **Installing the Button-Label Generator Software**

The Extron Button Label Generator is available on the Extron web site, **www.extron. com**, under the **Download** tab. Click the **Software** link, and download and install the program by following the on-screen instructions.

**NOTE:** The Button Label Generator software is also included on the Extron Software Products disc that accompanies the TouchLink Panel.

By default, the Windows installation creates a C:\Program Files\Extron\ ButtonLabelGenerator directory and places the Button Label Generator icon into a group or folder named Extron Electronics. A shortcut icon can also be placed on the PC desktop.

#### **Using the Button-Label Generator software**

 To run the Button-Label Generator program, click on the desktop icon. Alternatively, click Start > Programs > Extron Electronics > Button Label Generator > Button Label Generator. The Button-Label Generator window appears:

間 Button Labol Constator - yor 3-2	
File Tools Options Data Help	
🗋 🧉 🛃 🎿 Arial 🗸 8 🗸 Black	↓ B = = = ✓ Show label lines
TLP 700 MV Mat	es 10 button labels 0.76 " × 0.43 "
Picture for Button	Lines of Text
None C from Palette C from File:	Browse 2
Click on Buttons for Editing	
LIGHTS	
OFF	
SCREEN	
HELP DISPLAY ? MUTE	
AUDIO SPEECH MUTE MUTE	
MAGE	
	Clear Button Clear All Buttons Exit

#### Figure 47.Button Label Generator Software

- **2.** In the Systems selection box, choose the TLP 700MV or the TLP 700TV option to match the button label size and quantities for your TouchLink Panel.
- **3.** Using standard Windows controls, you can create and print labels that can be placed in the clear button caps on the front panel of the switcher.
- 4. Click the **Clear All Buttons** button and create new labels as many times as necessary to make all of the button labels that you need.

To access the help program, click the **Help** menu.

# **Replacing Button Labels**

The illustration below shows how to replace the button labels on the TLP 700MV. Although, the buttons on the TLP 700TV are slightly smaller and the labels are different dimensions, the procedure for replacing labels on either model is the same. To change the translucent button labels for either model, follow these steps, as shown in the diagram:

![](_page_54_Picture_2.jpeg)

#### Figure 48. Removing Buttons

- **1.** Pull off the clear plastic lens covering the button using the thumb and forefinger.
- **2.** If necessary, remove the existing label; it may be inside the lens or the top of the button plunger.
- **3.** Place the new label inside the plastic lens. Ensure that the label and the lens are in the correct orientation.
- 4. Align the plastic lens with the button plunger and firmly snap it into place.
- 5. Repeat steps 1 to 4, as needed, to relabel all the buttons.

# **Extron® Warranty**

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase; touchscreen display and overlay components are covered for 1 year. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

US an Ex 10 Ar U.	5A, Canada, South America, ad Central America: tron Electronics 001 East Ball Road naheim, CA 92805 S.A.	<b>Japan</b> : Extron Electronics, Japan Kyodo Building, 16 Ichibancho Chiyoda-ku, Tokyo 102-0082 Japan
Eu Ex Ha 38 Th	<b>arope, Africa, and the Middle East:</b> tron Europe anzeboulevard 10 325 PH Amersfoort an Netherlands	China: Extron China 686 Ronghua Road Songjiang District Shanghai 201611 China
As Ex 13 PN	<b>sia</b> : tron Asia 35 Joo Seng Road, #04-01 ⁄I Industrial Bldg.	<b>Middle East</b> : Extron Middle East Dubai Airport Free Zone F12, PO Box 293666

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions, or modifications made to the product that were not authorized by Extron.

United Arab Emirates, Dubai

Singapore 368363

Singapore

NOTE: If a product is defective, please call Extron and ask for an Application Engineer to receive an RA<br/>(Return Authorization) number. This will begin the repair process.USA:(714) 491-1500Europe:<br/>Japan:+31.33.453.4040Asia:+65.6383.4400Japan:<br/>+81.3.3511.7655

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.

# **Installation Checklist**

Installation of the TLP 700MV and TLP 700TV can be divided into five main sections:

#### Step 1 — Mount the TouchLink panel (select one option):

- □ Rack mount the TLP 700MV (page 38).
- □ Wall mount the TLP 700MV with (page 40) or without (page 39) an Extron wall box.
- □ **Mount the TLP 700TV on a desktop** (page 41).
- □ VESA mount the TLP 700TV (page 45).
- □ If required, **replace the buttons** on the front panel (see page 49).

#### Step 2 — Connect the power, network, and video cables, (select one option):

- **Cable the TLP 700MV** (page 6).
- **Cable the desk-top mounted TLP 700TV** (page 9).
- □ Cable the VESA mounted TLP 700TV (see the user guide for VESA mount kit online at **www.extron.com**).

#### Step 3 — Initial configuration with internal on-screen menus:

- Configure the TouchLink Panel, using the on-screen menus (page 11).
- □ Carry out **Touch Screen calibration** (page 14).

#### Step 4 — Install and update software:

- **Connect a PC** to same network as the TouchLink Panel (for PC requirements, see page 3)
- □ **Connect an IP Link controller** to the same network (for a list of suggested models, see page 3).
- □ Install GUI Configurator and Global Configurator on the PC (page 16).

#### Step 5 — Design and configure graphical user interface:

- □ Use GUI Configurator to **design a new graphical user interface project** for the TouchLink Panel (see page 21 and the GUI Configurator help file).
- Save and upload the project to the TouchLink Panel (see page 24).
- □ **Create a new Global Configurator project** for the IP Link controller (see page 26 and Global Configurator help file).
- □ In Global Configurator, import and **configure the GUI Configurator project** (see page 29 and Global Configurator help file).

Extron <b>USA - West</b> Headquarters	Extron <b>USA - East</b>	Extron <b>Europe</b>	Extron <b>Asia</b>	Extron Japan	Extron <b>China</b>	Extron Middle East
+800.633.9876 Inside USA/Canada Only +1.714.491.1500 +1.714.491.1517 FAX	+800.633.9876 Inside USA/Canada Only +1.919.863.1794 +1.919.863.1797 FAX	+800.3987.6673 Inside Europe Only +31.33.453.4040 +31.33.453.4050 FAX	+800.7339.8766 Inside Asia Only +65.6383.4400 +65.6383.4664 FAX	+81.3.3511.7655 +81.3.3511.7656 FAX	+400.883.1568 Inside China Only +86.21.3760.1568 +86.21.3760.1566 FAX	+971.4.2991800 +971.4.2991880 FAX